

TIME-  
**PROVED**

Weatherproof AND termite-protected  
**homasote**  
**INSULATING**  
**BUILDING BOARD**

FOR  
SHEATHING • SIDING • SOFFITS  
CEILINGS • COMPONENTS • DRYWALL  
SUB-FLOORING • UNDERLAYMENTS

A.I.A. FILE NO. 19-D-3



15/32" REGULAR • COLOR COATED • POLYPANELS™

# **PROVED**

## *Weatherproof*



Little America, Antarctica



U.S. Air Force Photo



Evansville, Ind.

### **Against polar cold and ice pack pressure**

In the first "Little America" buildings at the South Pole, Homasote provided constant protection against wind, moisture penetration and cold as low as  $-75^{\circ}\text{F}$ . Eighteen years later, members of the original Byrd Expedition found their old bunkhouses under 20 feet of snow and ice—with Homasote walls still undamaged.

### **Against tropic humidity and termite attack**

Interior Homasote walls of an overseas airline ground station—built in an area with 170-inch annual rainfall—showed no effect from mildew after 15 years. At the San Patricio Naval Reservation in Puerto Rico, termites did extensive damage to the framing and trim of housing but Homasote walls were still intact after 20 years.

### **Against flood waters and hurricane havoc**

Thirty years ago, Ohio River floodwaters swirled four-feet high around the Homasote interior and exterior walls of these buildings for seven days. They are still in use today. Similarly, in hurricanes of any year, Homasote structures invariably have remained standing while adjacent buildings blew down or were severely damaged!

# PROVED

# All-usable

## FOR NEW CONSTRUCTION, MODERNIZATION AND REPAIR BOTH OUTDOORS AND INDOORS

No other insulating building board can match Homasote in the number of jobs done so well—and in the *complete usability* of even the smallest piece.

A compressed wood-fibre product, Homasote is knot-free, grainless and non-splintering. Along with structural strength, Homasote possesses sound-deadening properties, insulating qualities and resistance to air and moisture penetration. In addition it is bendable to moderate curvatures, takes paint and stain perfectly—can be cut, nailed and in all other ways worked like wood.

Under no circumstances should Homasote be confused with all-about-the-same fibre boards. It packs more material (one pound) per square foot and is integrally weatherproof and termite and fungus-protected.

**Versatility unlimited**—Shown on this page are just a few of the wide variety of jobs which can be done with Homasote. In these examples, one or more of Homasote's advantages made the big margin of difference in the final selection.



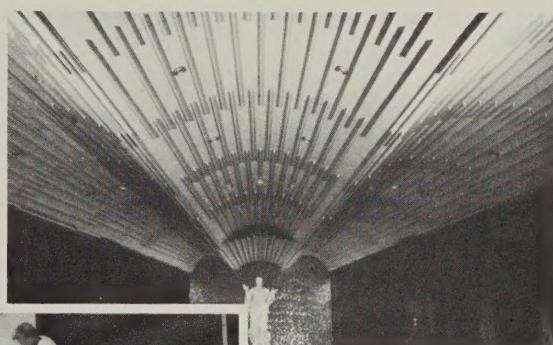
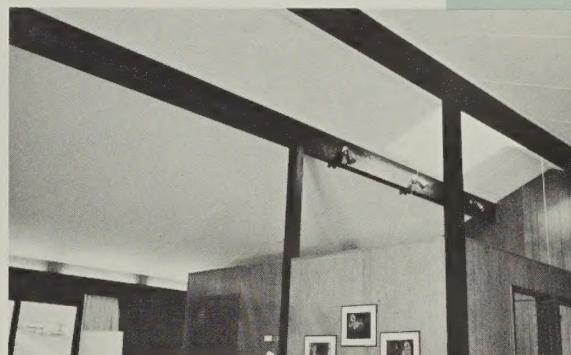
All leftovers are usable. As weatherproof signs, for example. Rippings are re-usable for concrete forms especially curves.

Big-sheet, insulating sheathing under metal, masonry, rigid and other types of siding and roofing.

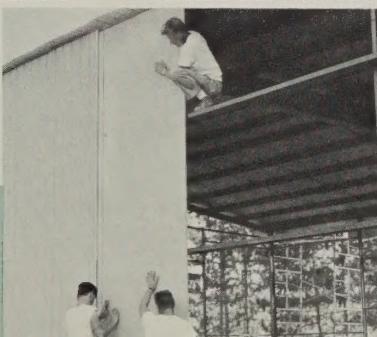


Double-skin, insulating roof and sidewalls for this northern New England poultry house.

Customized components such as the combination roof-ceiling members for this Brookfield, Conn. residence. Underside is Homasote open-beam ceiling — top is nailable Homasote insulating roof decking.



Vaulted, longitudinal ceiling, St. James R.C. Church, Carmel, N. Y.\* Textured surface reduces light glare.



\*Architect:  
Luders Associates, Irvington, N.Y.  
Contractor:  
Thomas P. Maguire, Inc., Brewster, N.Y.

# **PROVED**

*more economical*

# **BIG SHEET SIZE**



## **Goes up fast with less handling**

Walls as long as 14 feet can be covered with *just one* panel of Homasote board which is easily handled by only two men. By comparison, other materials would require  $3\frac{1}{2}$  to 4 panels (because of their limited panel sizes) to cover the same wall area!

There is another time and material advantage in the use of Homasote. Since one panel provides so much coverage in one operation, there is less total handling of material and less need for nails and for stock to cover joints—since there are fewer joints.

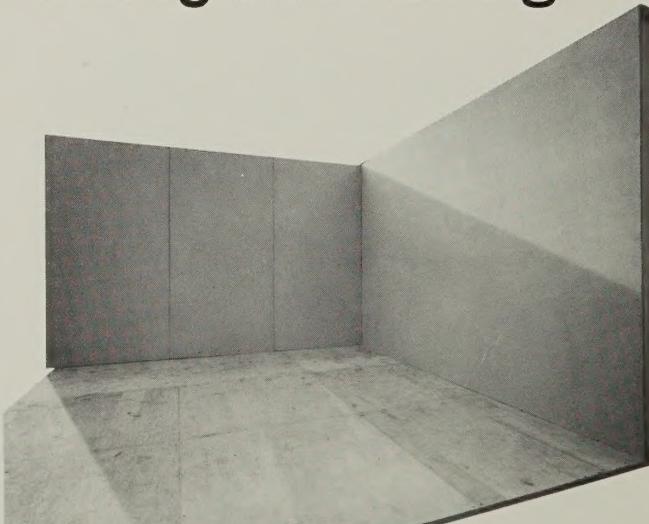
Because of the insulating and weatherproof qualities of Homasote, it is possible to omit or defer the use of finish coverings such as siding, shingles, paint, etc. Building schedules can be completed sooner and the building put in service at an earlier date. All of the above savings considered, you can understand why Homasote has time and again proved itself "cheaper applied" than other materials not nearly so versatile.

## **Greater Coverage—less fitting and nailing**

Because a single "big sheet" of Homasote eliminates 3 joints in every 14 feet of wall area, Homasote partitions and walls are "tighter" against the weather—provide fewer entrances for penetration of sounds and other infiltration.

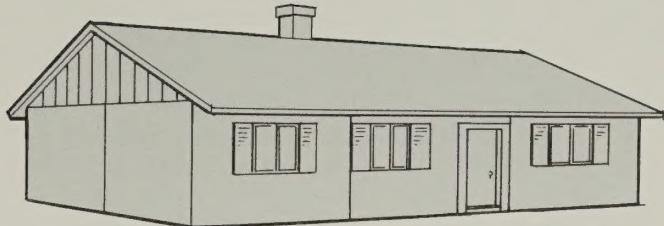
Putting the matter another way, Homasote in big sheet form gives twice as much coverage with the identical number of nails and nailing operations as other smaller panels.

Note in the photo (right) how one Homasote Big Sheet makes up the entire right-side wall. By contrast, in the end wall, three old-style 4' x 8' panels are needed for just twelve feet of wall length. Double nailing is required on framing where panels butt. To cover an exact 14 feet of length would require ripping another 4' x 8' panel to the needed 2 feet of additional wall surface—plus another nailing operation at joint!



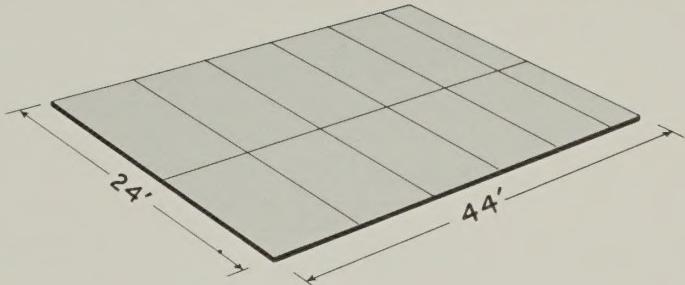
# •MEANS BETTER BUILDING

*at lower cost!*



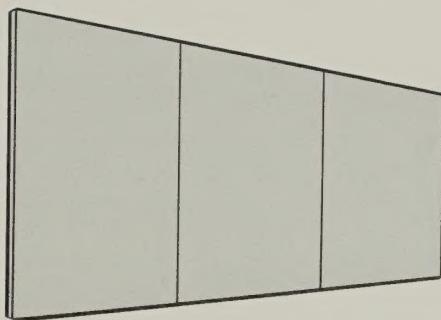
## SIDEWALL SHEATHING

Generally, use of Homasote big panels in the proportion of one-third 8' x 14's and two-thirds 8' x 12's results in no waste at all. Door and window cut-outs may be used for closet ceilings and exterior soffits.



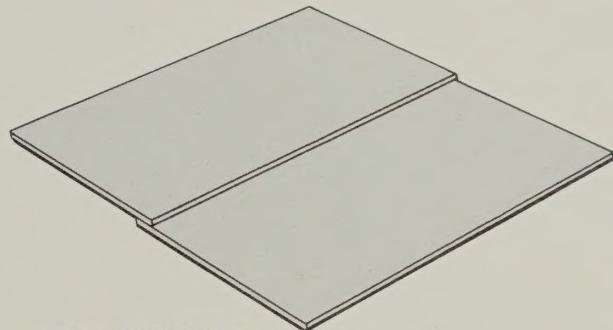
## SUB-FLOORING

Where 176 pieces of material used to be needed to cover 1056 sq. ft., the job can be done with just 11 sheets of 8' x 12' Homasote! In addition, Homasote sub-flooring provides sound deadening and protection against dampness.



## FINISHED EXTERIORS

A 14-foot high wall is easily erected using Homasote "Big Sheets" on end. Horizontal joints are avoided. Vertical butt joints may be covered with battens. Finished wall can take the weather without paint.



## ROOF SHEATHING

For re-roofing or new roofs on all types of farm and utility buildings, Homasote "Big Sheets" cover large areas with fewer joints and nailing. They are easily handled for exterior roofing work or as interior ceiling (when used primarily for insulation).

## Color Coated or Polypanels -less finishing operations



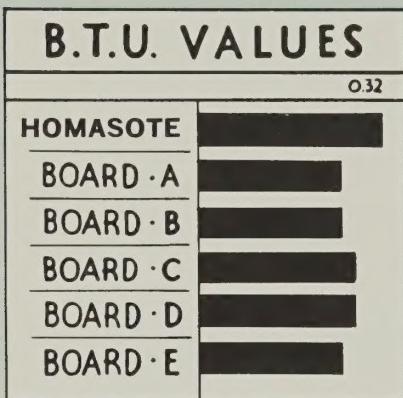
Homasote panels are available with factory-applied coatings of acrylic base paint, vapor-barrier paints or 1 mil thickness of white polyethylene. Standard color-coated panels are supplied in Snow White, Creamy Beige, Barn Red and Sherwood Green—and in widths up to 5' and lengths up to 14'. On special order, other colors and dimensions can be furnished.

"POLYPANELS", with their white polyethylene, vapor-barrier coating, provide structural strength, constant insulation and high moisture resistance. Ideal for confinement housing and wherever else a tough, washable and serviceable sidewall and ceiling—with high light reflectance—are required. Panels are 4' x 8', 10' or 12'.

# PROVED

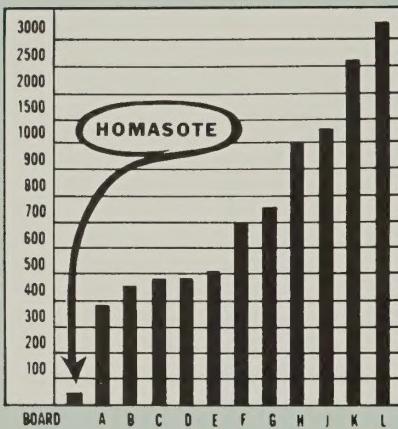
*in test  
after test*

## INSULATING QUALITIES



True insulation values are based on three factors: BTU rating (see chart above), resistance to air penetration and moisture absorption (see charts, right). Based on all three factors, Homasote provides superior insulating efficiency!

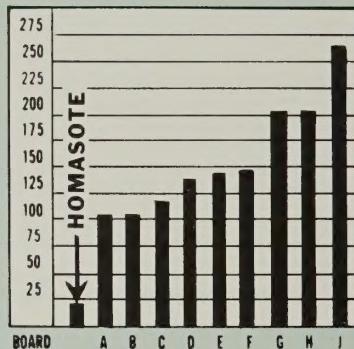
## RESISTANCE TO AIR INFILTRATION



Cubic centimeters of air, per square meter, per second, passing through board. (Bureau of Standard Tests). 18 to 112 times more air passes through other boards (with 40 m.p.h. wind) than through Homasote! At higher velocities, the differences are even greater.

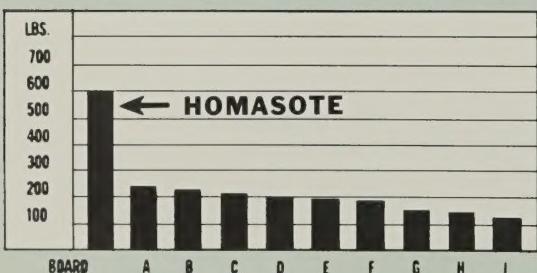
## HIGH MOISTURE RESISTANCE

% Absorption in 20 hours  
when totally immersed in water



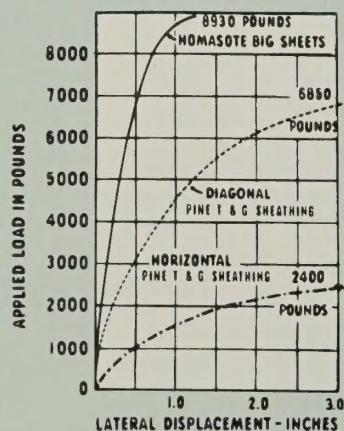
The very low moisture absorption of Homasote insures: freedom from dampness and mold—practically constant insulating value. (Based on Bureau of Standard Tests.)

## TENSILE STRENGTH



The tensile strength of Homasote plays an important part in bracing a building.

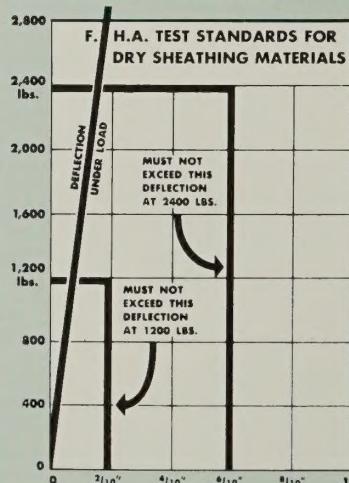
## RACKING STRENGTH



20% to 217% stronger than ordinary insulating boards, Homasote not only insulates but also offers structural strength many times that of wood products used for the same purpose. (Bureau of Standard Tests.)

In independent tests Homasote has proved 33.6% stronger than diagonal wood sheathing and 272% stronger than horizontal wood sheathing.

## RACKING STRENGTH



Further evidence of Homasote's margin of safety is this test. Used as sheathing and without corner bracing, 8' x 8' sheets had a 150% reserve at 1200 lbs. and a 300% factor at 2400 lbs. Comparison is diagonal sheathing.

**AND**

**APPROVED**

## **By LEADING BUILDING AUTHORITIES**

### **BUILDING OFFICIALS CONFERENCE OF AMERICA, INC.**

**Approval No. 54-15R** As wall or roof sheathing wherever fibre board, insulating board, or wallboards and sheathing of processed fibre are permitted by the BOCA Basic or Abridged Building Codes.

As a panel ready to install for enclosing such soffits as eaves, porch and carport ceilings.

### **INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS**

**Report No. 1016.7** 15/32" Homasote Insulating Building Board for the following uses:

- a) As exterior sheathing without building paper.
- b) As weatherboarding, when applied to an approved sheathing.
- c) As weatherboarding applied directly to studs for utility type building not containing human occupancy.
- d) As soffit, porch and carport ceiling material.

- e) For use as sheathing, the effective length of the wall shall not be less than ten feet (10') for each corner or let-in brace replaced. The effective length of the wall shall not include sections between openings which are less in width than the height of the smaller opening.

### **SOUTHERN BUILDING CODE CONGRESS**

**Report 6330** Approved for use as Exterior Sheathing, Exterior Wall Finishes, Interior Wall and Ceiling Finishes and on ceilings of carports and porches and as "Soffitsote" for Soffits.

### **CENTRAL MORTGAGE AND HOUSING CORPORATION (Canada)**

Approvals for Board and Batten application, for Soffits (as "Soffitsote") and for Sheathing.

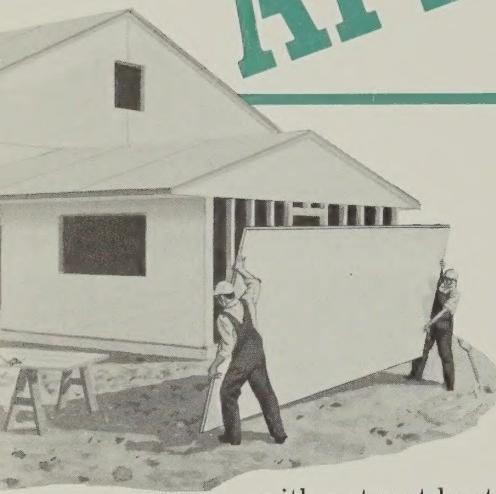
### **FEDERAL HOUSING ADMINISTRATION**

15/32" Homasote Insulating Building Board meets FHA requirements for use as Exterior Wall Sheathing; Exterior Finish for (1) soffits and (2) ceilings of carports and porches and (3) Sidewalls.

## **WARRANTY**

For a period of 12 calendar months from date of sale by authorized dealers or distributors, Homasote Company guarantees its products to be free of defects. The Company will supply, after inspection by its authorized representative, new material free of charge, in replacement of any Homasote product which is found defective. The Company will not be liable for any contingent liability or other losses resulting from misuse or misapplication of its product. Homasote Company does not acknowledge any claims in respect of labor expenses in repairing or altering structure on which its product has been used, nor does it accept responsibility for any repairs or replacements executed by its distributors or others.

# APPROVED APPLICATION PROCEDURE



**Preparation** — Panels of Homasote larger than 4' x 8' should be pre-conditioned by light sprinkling with water at least 24 hours before using.

**Framing** — All framing should be maximum 16" o.c. Provision should be made for blocking to support edges of panels between framing members.

**Application** — Apply Homasote Boards as sheathing directly to the framing members, with 8' dimension parallel to the wall height and with all end joints centered over framing. Allow  $\frac{1}{8}$ " space between panels at all joints over framing.

**Nails** — Use a 5d galvanized nail such as Homasote Nail No. 5150. Always start nailing in center of sheet placing nails 10" apart through the field of the sheet and working out from the center to each end. Keep nails at edge  $\frac{1}{2}$ " in from the edge of board and 6" o.c.

Estimate approximately  $\frac{1}{2}$ -pound of nails per hundred square foot of Homasote area, including openings.

**Finishing** — For wood shingles, use Homasote Nail #5200,  $1\frac{3}{4}$ " long with 3/16" waffle head, corrosion-resistant with annular rings. Apply shingles with double course in conventional manner, nailing through undercourse into sheathing.

*Masonry veneer* is applied over sheathing of Homasote by providing not less than  $\frac{1}{2}$ " of space between face of sheathing and back of veneer. Metal wall ties must be applied at the rate of one tie to every 160 square inches of wall area. Nailing of wall ties is directly through sheathing into studs with  $1\frac{3}{8}$ " penetration.

## SIDEWALL SHEATHING

Vapor permeable paper may be used when required by local code.

Direct application of *asbestos cement siding shingles* to Homasote requires back strips of 3-inch wide, 15 lb. felt applied under vertical shingle joints. To hold shingle, use Homasote Nail #5150,  $1\frac{1}{2}$ " long with 3/16" waffle head, corrosion-resistant and with annular rings. When undercourse is applied, use 2" nail of design similar to Homasote Nail #5200.

*Stucco finish* over Homasote sheathing starts with application of vapor permeable paper and self-furring laths directly over the sheathing. Use corrosion-resistant nails sufficiently long to go through sheathing and penetrate studs  $1\frac{3}{8}$ ".

*Specialty sidings*, such as vertical wood or grooved vertical Homasote siding, must be applied with air space between sheathing and siding. Apply 1 x 2 horizontal wood furring strips placed 16" o.c. on surface of sheathing. Nail to sheathing with at least  $1\frac{3}{8}$ " penetration into studs and apply siding in usual manner.



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## INTERIOR DRYWALL

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**Preparation**—Panels larger than 4' x 8' should be pre-conditioned by light sprinkling with water at least 24 hours before application.

**Framing**—Studs should be 16" o.c. with blocking or plates at top and bottom. Continuous backing is required wherever edges of Homasote panel occur, to provide support.

For ceilings, provide 1 x 2 furring strips 12" o.c. Cross-fur to provide bearing for edges of Homasote.

**Application**—The fine wire-marked surface is the finished surface and should be kept "right side out". Apply panels directly to framing in sheet size sufficient to cover maximum wall or ceiling area. Joints in Homasote wall surfaces should be planned at windows or door jambs to facilitate treatment.

Sheets covering an entire wall should be cut one-inch shorter than the wall length before being brought into the house.

**Nailing**—Nail with 1½", 16-gauge galvanized or cement-coated nail (such as Homasote Nail #1506, with 3/16" waffle head). Start nailing from center of panel out to edges keeping nails 10" apart in the field of the panel and 6" o.c. around the edges. Keep nails ½" from edge.

Waffle head nails may be "set" flush and do not need to be spackled. If desired, on jobs of a more finished character, nails can be set ¼" below surface of board with a punch. Spackle with a clean putty knife, using only enough spackle to cover one hole at a time. Do not completely fill depth of the hole—air space between nailhead and back of spackle will avoid condensation on face of spackle. Also, do not spread spackle around hole on surface of the board as a smooth spot will result which can not be removed regardless of care exercised in painting. Edge nails do not need to be countersunk.

**Finishing**—Prime with Homasote Primer Sealer, using spray, brush or roller. Finish coat can be any good grade of interior flat oil paint, enamel, water or casein base paints.

If wallpaper is to be applied over Homasote, apply a coat of glue size using ½-pound of glue to a gallon of water. Let dry thoroughly before papering. And do not paper over joints—wallpaper will crack.

**Moldings**—All joints should be covered with some type of molding (after paint or wallpaper has been applied). These cover moldings should be fastened directly to the framing without nailing through Homasote. Additional suggestions are available on request.

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## WIDE EAVE SOFFITS—Porch and Carport Ceilings

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**Installation**—Provide framing 16" o.c. with blocking to support all edges. Cross-fur where eave is wider than 24" to provide additional bearing.

Nail-free installation of vented Homasote soffits up to 24" wide can be accomplished with standard drop-in ceiling grid components. Wall angles are attached to house and back of fascia. Panels of Homasote, cut to loose fit, are inserted to rest on grid members. Cross-tees are put in

position to support end before next panel is installed.

For carport and porch ceilings, follow procedure as for "Finished Exterior Wall", Page 8.

**Finishing**—Unless panel is factory color coated, it should be primed with Homasote Primer Sealer. Color-coated panels should then be finish-coated with any good grade of exterior house paint. Cover exposed joints with a molding or batten that is back-primered.



## FINISHED EXTERIOR WALLS

**Preparation**—Pre-condition sheets that are larger than 4' x 8', the day before use by sprinkling each one lightly with water and let stand in stacks. In the case of "Color-Coated" panels, stand them around *individually* for 24 hours before application, to adjust to the humidity of the area in which they are to be used.

**Framing**—Framing must not exceed 16" o.c. and all edges must be supported. All vertical joints should be centered over a backing stud with panels kept  $\frac{1}{8}$ " apart.

**Nailing**—Fine wire-marked surface is the finished surface of Homasote and should be kept "right side out". Keep panels at least 6 inches from ground.

Nails should be waffle head. A 1½" ring-drive and corrosion-resistant nail (such as Homasote Nail #5150) is recommended. Space nails 6" o.c. around perimeter of each panel and 12" o.c. in the field of the board. Start nailing in center of panel and work out to each side, staggering nails

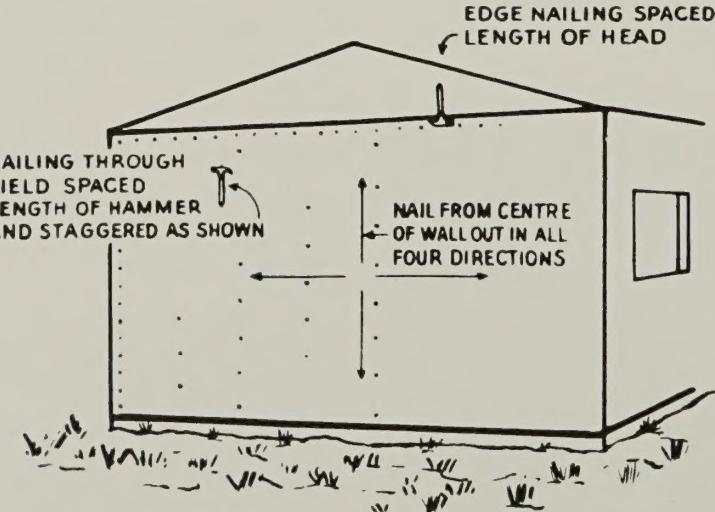
on alternate studs. (See Drawing). Keep nails  $\frac{1}{2}$ " back from edges of board.

**Cut-outs**—Doors and windows can be cut out after panels are nailed in place. Or, openings can be made in panel before application.

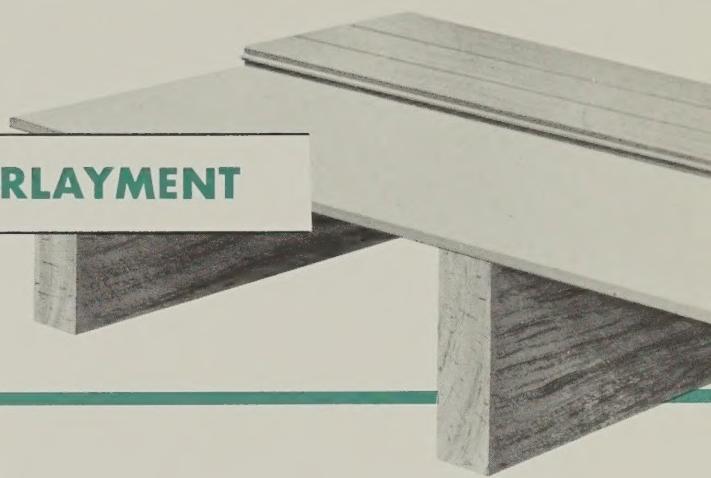
**Finishing**—Over each joint and stud apply battens that are not less than 1½" wide and  $\frac{3}{4}$ " thick. Battens should be back-primed. Nail with 2½" galvanized common nails. Outside corners are to be finished in conventional manner. Prime coat of paint is to be applied immediately after application (unless "Color-Coated" type of Homasote is used). Finish painting in same manner as wood siding.

Other finishing methods are described in the "Homasote Handbook".

Flashings should be made in conventional manner. Junctions at openings, except where protected by over-hanging flashing, should allow at least  $\frac{1}{4}$ " clearance from abutting framework or masonry and should be filled with a gun grade caulking compound.



## SUB-FLOORING and UNDERLayment



**Preparation**—Panels larger than 4' x 8' should be pre-conditioned by light sprinkling with water at least 24 hours before application.

If Homasote is to be used as underlayment, make sure sub-floor is smooth (not cupped), of dry lumber, level and securely fastened to floor joists. Edges of sheets must be level—by shimming or sandpapering, if necessary. (Homasote "Resilbase", in 4' x 4' panels, is already sanded and sold specifically for the purpose).

Underlayment with Homasote over concrete must be installed *only* where concrete is clean, dry and above grade. Hold back all sheets  $\frac{1}{2}$ " from walls and partitions.

**Framing**—Where Homasote is used as sub-floor, maximum joist spacing is 16" o.c. and all edges must be supported. Where board joints are at

right angles, cutting should be provided to back the joints.

**Fastening**—A 1  $\frac{3}{8}$ " ring-drive nail (such as Homasote Nail #13753) is recommended for *sub-flooring* application. Space nails 12" o.c. in the field of the board, starting at the center and working to each edge. Around perimeter, nails should be 6" o.c.

As *underlayment*, Homasote Ring Drive Nail #13753 should be used to prevent squeaking. In areas where heating pipes or ducts occur directly under the sub-floor, nail a layer of 15 lb. felt over them as well as in area of sub-floor over the furnace. Hold sheets back  $\frac{1}{2}$ " from all walls and partitions. Space nails 6" o.c. around edges and every 6" in the face of panels used as underlayment. To apply on concrete slab, use Homasote Adhesive as directed. Slab must be integrally waterproofed (unless of the suspended type).

## SPECIAL APPLICATIONS

**Roof Sheathing**—On farm and utility buildings, Homasote panels provide a satisfactory and low-cost finished roof. A variety of installation methods are possible. Consult your Homasote Representative for application instructions to fit your requirements.

**Under Metal Exteriors**—Roofs and walls of metal frame buildings can be made draft-tight and insulated with Homasote panels fastened to frame during construction. Metal siding and

roof are attached with a T-strip which secures Homasote panel on interior side to metal framing. Full details in Bulletin H-301.

**Over Crawl Space**—Homasote "Polypans", either  $\frac{1}{2}$ " or HD  $\frac{5}{8}$ " thick, provide an extra margin of protection when installed on floor joists over crawl space. Permanent plastic coating locks out dampness penetration—resilient panels 4' x 8', 10' or 12'.

# APPROVED

## BUILDING PRODUCTS by HOMASOTE

### "Easy-Ply" ROOF DECKINGS

Weatherproof, 2' x 8' panels in 5 thicknesses for 4 rafter spacings. Rugged, T&G insulating sheathing with a broad selection of finishes, especially attractive for open-beam interiors.

### "4-Way" FLOOR DECKING

In one operation, each 2' x 8' panel provides: sub-flooring, underlayment, sound deadening and weatherproof protection. 1-11/32" thick...T&G... termite and fungus protected.

### "Ready-vent" SOFFITSOTE

Ready-to-install, weatherproof panels, with screened vents in place, 8' and 12' lengths in 12", 16", 24", 30" and 36" widths.

### "Homex" EXPANSION JOINTS

Pre-molded wood-fibre strips for quick, clean, lower-cost stress relief, in all concrete and masonry joints. No flow or extrusion. Lengths up to 14', widths from 2" to 48" and thicknesses from  $\frac{1}{4}$ " to  $1\frac{1}{4}$ ".

### "One-Man" PANELS

Tongue and grooved, V-jointed on all four edges. 2' x 8' and 4' x 8' weatherproof panels for both interior and exterior work.

#### SHORT FORM SPECIFICATION

All ..... as shown on drawings, shall be  $\frac{1}{2}$ " (or specify) thick Homasote as manufactured by Homasote Company, Trenton, N.J. and installed in strict accordance with current specifications provided by the Homasote Company.

**homasote** *Company* TRENTON, N.J. 08603